ENVIRONMENTALLY RESPONSIBLE SOLUTIONS

OG INDUSTRIES

OdorGone®

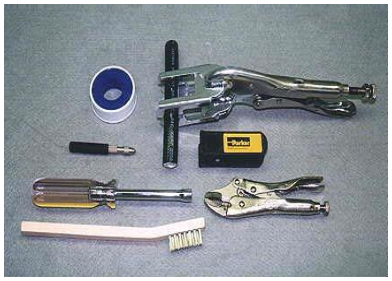
INDUSTRIAL ODOR AND DUST CONTROL

OG INDUSTRIES, INC.

4219 Garrett Rd Drexel Hill, PA. 19026 USA
Web site- www.odorgone.com Email- pete@odorgone.com
Tel 1-800-930-9227 Fax+1-610-623-7139

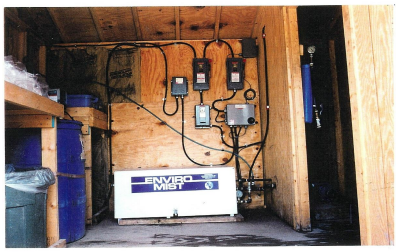
OdorGone®

Odor Control Systems
&
Applications
1-800-930-9227
pete@odorgone.com
www.odorgone.net



ATOMIZING

NO MORE ODOR COMPLAINTS



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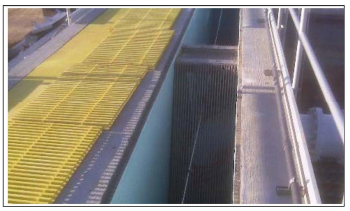

HEADWORKS

"Proudly Made In America"

OdorGone ® INDUSTRIAL

Product Description

Environmenrally responsible, industrial strength odor neutralizer for the waste industry, in atomizing systems, scrubbers and topical applications. Eliminates airborne, static and imbedded odors.

Product Features

Non-toxic ,eco-degradable, bio-degradable, water soluble, dilutable, natural ingredients, neutral pH.
No olfactory desensitizing chemicals, masking agents, scents, perfumes, or fruity fragrances.
No enzymes, live bacteria, microbes, alcohol, propellants, VOC's or hazardous chemical ingredients.
Concentrated for convenience, OdorGone- BULK- BLEND is a highly dilutable, non-clogging formulation.
Safe to handle, safe to ship, safe to store, and carries no spill or respiratory warnings.
Used worldwide in thousands of applications at waste water treatment plants, pump stations, press rooms, transfer stations, landfills, recycling and compost facilities.

Unique technology

Bonds with odor molecules to create a natural biodegradation process that permanently neutralizes odors. eco-degrading to biological inert fragments with the ultimate end residues being odor free carbon dioxide, salt and water.
Uniquely formulated for atomizing systems and scrubbers to maintain peak performance and long life.
Will keep nozzles clean and clog resistant, and pump internals clean and running smooth.
Continually neutralize an infinite variety of noisome odors at the highest dilution rates.

Testing / Methods

99.6% Hydrogen Sulfide (H2S) removal efficiency using test methods; USEPA 1,2,3,4,11 and ASTM E-679
Complies with; Boeing D6-7127 Revision L, ASM 1550 B, and USDA classification - C1

User Benefits

Immediately eliminates an unlimited variety of industrial malodors, and within a few minutes the scent of OdorGone's natural ingredients also disappears, leaving the environment odor free.

Proven performance worldwide - Safe for use outdoors and indoors

Environmentally Responsible Solution - "Safe around People, Pets, and the Earth"
Not a cover-up fragrance; leaves the environment "Fresh, Clean and Natural;"
Can be atomized, sprayed, mopped, sponged, poured or squirted where needed.
Use in high-pressure systems, turbo fans, drum top foggers, misters, pump sprayers and ventilation.
Replace caustics and chlorine, and eliminate the hazards of handling, storage and corrosion

Safe on vegetation, painted and unpainted surfaces, concrete, cinderblock, brick, stucco, hardwood, tile, woodwork, plastic, vinyl, tedlar, rubber, fabric, upholstery, leather, naugahyde and carpet.

Bonus

Add to power washers, cleaning solutions, holding tanks

Summery

There are many odor control products available that claim to be the answer, but most contain hazardous chemicals with questionable health risks or warnings when used. In the end they just turn out to be spurious irritating cover ups, nauseating perfumes or expensive fruity fragrances that soon wear off.

Today's consumers are extremely health conscious and demand safe, environmentally friendly products capable of handling the infinite variety of noisome odors that invade their quality of life.

OdorGone is an environmentally friendly odor neutralizer that maintains the highest standards and supports your reputation for environmentally responsible solutions that exceed all expectations.

Proudly Made in America

OdorGone® Performs Where Others Fail

OG Industries, Inc.
January, 2013

E-mail...odorguy@odorgone.com
www.odorgone.net
www.odorgone.com

Phone...800-930-9227
USA...610-623-6747

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name ***OdorGone***®

OG Industries, Inc
P.O. BOX 1286
Havertown, PA. 19083
USA

For information or emergencies call: (1-610-623-6747)… **In USA**: (1-800-930-9227)… **e-mail:** (pete@odorgone.com)

Issued Date January 1, 2013

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients(s): NONE. The specific identities of the ingredients of this mixture are considered by OG Industries, Inc. to be TRADE SECRETS, and are withheld in Accordance with the provisions of paragraph 1910.1200 of the Title 29 of the Code of Federal Regulations.

OdorGone does not contain any substance included in the following lists of toxic chemicals and wastes:

TSCA There is no required reporting or other compliance required by TSCA Section 8
Canadian DSL
EINECS.
RCRA List (40 CFR 261, Subparts C & D).
SARA 313 List (40 CFR 372.65) and percentages
California Proposition 65 List
DOT List (49 CFR 172.101 Appendix) and Reportable quantities

NEW JERSEY RIGHT-TO-KNOW: (Trade Secret registration Number)...NJTSRN-09609

SECTION 3 - HAZARDS IDENTIFICATION

This mixture has not been tested as a whole. None of the ingredients are listed as carcinogens or potential carcinogens by NTP, IARC or OSHA.
Medical Conditions Generally Aggravated by Exposure: None known to OG Industries

Hazard Rating		0 – Least 1 – Slight
Health	1	2 – Moderate
Fire	0	3 – High
Reactivity	0	4 – Extreme

SECTION 4 - FIRST AID MEASURES

Emergency and First Aid Procedures: N/A in normal operation.
Inhalation: None
Eye Contact: Flush immediately with clean water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact: Flush with fresh water
Ingestion: Give milk or water, induce vomiting. Get medical attention immediately or call emergency medical center. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: None (TCC) Flammable Limits: *N/A
Extinguishing Media: Carbon Dioxide, dry chemical or Foam.
Special Fire Fighting Procedures: None.
Unusual Fire and Explosion Hazards: None known to OG Industries

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Steps to be taken if Material is Released or Spilled: Flush small amounts into drain. Collect and return large amounts to container.

SECTION 7 - HANDLING AND STORAGE

Handling and Storage precautions: Store in a cool, dry area. Keep containers tightly closed and upright when not in use. If frozen, thaw and mix to make usable. Other Precautions: DOT Class not required. Good manufacturing practices dictate that an eyewash fountain and/or safety shower should be available in the work area.

SECTION 8 - EXPOSURE CONTROLS

Do not eat, drink or
Do not use for personal hygiene.
Incidental skin contact is not harmful
Respiratory Protection: None
Allergy / Asthma: None Known…If you have a condition please take all necessary precautions to ensure your safety.
Ventilation: None
Protective Gloves: None
Eye Protection: N/A in normal operation. Safety glasses when handling.
Other Protective Clothing or Equipment: None
Work/Hygienic Practices: N/A

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 212°F@ mm Hg	Vapor Pressure: 17.7
Melting Point: *N/A°C	Vapor Density: N/A
Specific Gravity: 1.0	VOC: None
Solubility in water: 100%	Evaporation Rate (Butyl Acetate = 1) <1
pH 6.5	Appearance and Odor: Clear / Milky Liquid, Citrus/ Floral odor. Product may appear rosy colored.

SECTION 10 - STABILITY AND REACTIVITY

This product presents no significant reactivity hazard. It is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact or contamination with oxidizing agents

.

SECTION 11 - TOXICOLOGICAL INFORMATION

Eye Effects	Moderately irritating
Skin Effects	Irritation: Slightly irritating Absorption: LD50>500,000 +/- mg/kg Sensitization: Positive

SECTION 12 - ECOLOGICAL INFORMATION

Biodegradable	Yes
Non-Toxic	Yes
USDA	C-1
Plants	No effect on plants known to OG Industries, Inc with normal use
Animals	Avoid eye contact. Do not let them eat or drink

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Methods:, Triple rinse and recycle.

SECTION 14 - TRANSPORTATION INFORMATION

May be shipped normally as a non-hazardous material

Class	55
Schedule B	3301195160

SECTION 15 - REGULATORY INFORMATION

NA

SECTION 16 - OTHER INFORMATION

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of the product are beyond OG Industries control; it is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, damage or expense arising out of the product's improper use. No warranty, expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various Government agencies (e.g. DOT, EPA, FDA) may have Specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this MSDS. The user should review those regulations to ensure full compliance.

ENVIRONMENTALLY RESPONSIBLE SOLUTIONS

OG INDUSTRIES

OdorGone®…"Eco-Degradable"

OdorGone® is manufactured by an Exothermic Reaction Synthesis; creating a Proprietary One of a Kind Odor Neutralizer of non-toxic, "Eco-Degradable" botanical extracts. All have a long history of safety in use. The result of the process is a water base compound that features a semi-rigid, concave molecular structure. It has the unique ability to capture and hold malodor such as mercaptans, amines and sulphide.

We prefer to use the term "Eco-Degradable" rather than the more restrictive term bio-degradable. The reason is that degradation of ***OdorGone***® can go on even without a living organism. Surely, bio-degradation goes on too, and ultimately every organic thing under the sun is subject to the attack of microorganisms such as animals, plants and fungi. In the case of ***OdorGone***®, nature has built into the molecules some weak points such that they are destroyed naturally after performing their task, "Eco-Degrading" to biological inert fragments with the ultimate end residues being Odor Free carbon dioxide, salt and water. Therefore bringing the environment… "*Back to Natural*"

OdorGone®

"Performs Where Others Fail"

Phone 1- 800 - 930 - 9227

Web www.***odorgone.***com

Proudly Made in America

Oyster Shell Composting Odor Control…New Haven, CT

*Air*Recon® / Raritan, NJ 08869-0130
Division of
RECON SYSTEMS, Inc.

SUMMARY

The following results were obtained: (test methods: USEPA 1, 2, 3, 4, 11 and ASTM E-679)

Run	**5**
Date	**6/2/1994**
Time	**1448 – 1548**
Scrubber Solution	***OdorGone***

Emissions Data – HYDROGEN SULFIDE

Scrubber Inlet	
pounds/ hour	**0.28**
ppmv (dry)	**16**
ppmv (wet)	**15**

Scrubber Outlet	
pounds/ hour	**<0.001**
ppmv (dry)	**<0.08**
ppmv (wet)	**<0.08**

% Removal Efficiency

pounds/ hour basis >99.6%

Any sample remaining from this project will be retained for sixty days from the date of this report unless directed otherwise.

ENVIRONMENTALLY RESPONSIBLE SOLUTIONS
OG INDUSTRIES

OdorGone®

INDUSTRIAL

Odor Control

TO SAVE ON SHIPPING COST, STORAGE SPACE AND FOR SAFE HANDLING, *ODORGONE* IS SHIPPED AS A CONCENTRATE CALLED BULK-BLEND. FIRST, PRE-MIX BULK-BLEND INTO AN INTERMEDIATE CONCENTRATE BEFORE CALCULATING DILUTION RATES. ONCE PRE-MIXED FROM BULK-BLEND TO AN INTERMEDIATE *ODORGONE* WILL STAY IN SOLUTION AND NEVER NEED TO BE STIRRED.

INSTRUCTIONS AND DILUTION RATES ARE LISTED BELOW.

BULK-BLEND
PRE - MIX

PRE - MIX Instructions (10:1) Add 10 - parts water to 1 ï part BULK-BLEND to make *OdorGone* INDUSTRIAL Odor Controlé Ready to Use (RTU)

DILUTION RATES
(After PRE – MIX) (RTU)

Dilution rates and daily usage will vary based on odor intensity, and the efficiency and run time of the odor control system. Location, (indoors or outdoors) weather conditions, nozzle placement, nozzle output, fog or mist particle size are all factors in determining dilutions. The optimum dilution rate is achieved when neither the odor nor the ***OdorGone*** can be detected.

Atomizing Nozzles **(high pressure/10-microns or less)**	**(100:1) to (5000:1)**
Foggers, Misters, Fans	**(10:1) to (600:1)**
Scrubbers	**(300:1) to (5000:1)**
Topical	**(4:1) to (600:1)**

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ENVIRONMENTALLY RESPONSIBLE SOLUTIONS
OG INDUSTRIES

OdorGone® / Odor Control System

10 nozzle example

Pump output
Nozzle output (water demand)
***OdorGone* Usage**

HP pump	1. 5 GPM	90 GPH	2160 GPD	(up to 60 nozzles)
HP pump	.7 5 GPM	45 GPH	1080 GPD	(up to 30 nozzles)
Each nozzle	0. 025 GPM	1. 5 GPH	36 GPD	(at 1000 PSI)
Odor control injector	adjustable to dispense the proper ratio of odor control to water			(1 to 100) to (1 to 500)

Example Water demand for 10 nozzles at 1000 PSI

10 nozzles x 0 .025 = 0. 25 GPM x 60 = 15 GPH x 24 = 360 GPD

***OdorGone* usage after pre mix of 5 gallons *OdorGone* BULK-BLEND concentrate with 50 gallons water.**

Injector setting	1 to 100	**OG Usage**	0 .15 GPH	3 .60 GPD
	1 to 200		0 .075 GPH	1 .80 GPD
(Good Place to Start)	**1 to 300**		**0. 05 GPH**	**1 . 20 GPD**
	1 to 400		0 .037 GPH	0 .90 GPD
	1 to 500		0 .03 GPH	0 .72 GPD

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ENVIRONMENTALLY RESPONSIBLE SOLUTIONS
OG INDUSTRIES

OdorGone®

OG Industries, Inc.

All New *OdorGone*® Odor Control Systems include a complimentary (5) gallon container of *OdorGone*® Industrial Odor Neutralizer in a Ready to Use blend

Thank you and congratulations on the purchase of your New High Quality ***OdorGone***® Odor Control System**.** To get you started we include a complimentary 5 gallon container of ***OdorGone***® Industrial Odor Neutralizer in a Ready to Use blend. ***OdorGone***® Odor Neutralizers are specially developed for your new system to maintain the peak performance and long life you expect. To keep pump internals clean and running smooth and nozzles clog resistant so the infinite variety of noisome odors throughout your facility are continually neutralized at the highest dilution rates possible.

OdorGone® also meets your demand for a safe, environmentally friendly product so environmental responsibility is not a question. I have included the ***OdorGone***® Fact Sheet, MSDS, and Dilution Rates.

To get started have your nozzles in place and system ready to run, insert the pick up tube from the injector directly into the 5 gallon container of ***OdorGone***® (RTU) and set the dilution rate on the injector. A good dilution to start is between (300 & 500 to 1). The optimum dilution is attained when you no longer smell the odor or the ***OdorGone***®

OdorGone® is also available in a concentrate 5 gallon ***OdorGone***® **BULK-BLEND** to make 55 gallons of Ready to Use.

Please contact us with any questions or to re-order *OdorGone*® Environmentally Responsible Solutions…

OdorGone® **Ready to Use…5 gallons**	**OG stock# 01005**
OdorGone® **Bulk - Blend… 5 gallons**	**OG stock# 01025**

Thank you,

Peter G. Gans
President

***OG* Industries, Inc.** * **4219 Garrett Road** * **Drexel Hill, PA 19082**
Phone… 610-623-6747 **USA… 800-930-9227** **Fax… 610-623-7139** **Web… www.odorgone.com**

OdorGone® Industrial Odor Control Systems 2013

ALL COMPLETE PACKAGE SYSTEMS INCLUDE A COMPLEMENTARY 5 - Gallons *OdorGone*® Ready To Use (RTU)

SYSTEM #	Materials in each kit
OG 40	BIGHORN I Pump unit 110 volt, with chemical injector, 40'0" flex line with nozzles at 5'0" centers, 40'0" flexible manifold, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)
OG 80	BIGHORN I Pump unit 110 volt, with chemical injector, 80'0" flex line with nozzles at 5'0" centers, 40'0" flexible manifold, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)
OG 120	BIGHORN I Pump unit 110 volt, with chemical injector, 120'0" flex line with nozzles at 5'0" centers, 60'0" flexible manifold, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)
OG 160	BIGHORN I Pump unit 110volt, with chemical injector, 160'0" flex line with nozzles at 5'0" centers, 60'0" flexible manifold, center tee, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)
OG 200	BIGHORN II Pump unit 220volt, with chemical injector, 200'0" flex line with nozzles at 5'0" centers, 100'0" flexible manifold, center tee, 2 x manifold valves, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)
OG 240	BIGHORN II Pump unit 220volt, with chemical injector, 240'0" flex line with nozzles at 5'0" centers, 100'0" flexible manifold, center tee, 2 x manifold valves, spare nozzles, fittings and a complementary 5 - Gallon *OdorGone* (RTU)

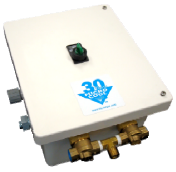
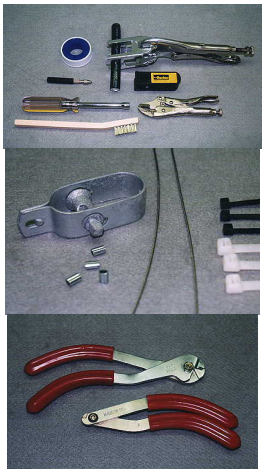
***OdorGone* delivery systems use the highest-quality, industrial grade equipment and high pressure fittings. Each system comes complete with installation tools, connection and maintenance tools, full operation and service manual and a complementary 5 - Gallon *OdorGone* (RTU) Optional stainless steel support wire available.**

BIGHORN Pumps are available in 3 models from 4 – 80 nozzles. Complete with a pressure driven variable speed drive (to control motor speed based on the number of nozzles) remote control connection and separate switched isolator.

HIGH PRESSURE BIGHORN II SERIES PUMP MODULES	
NEW….all pumps complete with auto speed control (PID loop)	
OGBGH0501	BIGHORN 5 pump unit 110 volt 1ph 60 Hz from 2 - 20 Nozzles
OGBGH0001	BIGHORN I pump unit 110 volt 1ph 60 Hz from 4 - 40 Nozzles
OGBGH0002	BIGHORN II pump unit 220 volt 1ph 60 Hz from 5 - 80 Nozzles
OGPFU1010	Extra 10" filter pack for BIGHORN II series
OGIHK0001	BIGHORN Inlet Hose Kit (connects to water supply)

Photographs and designs are not necessarily of the exact equipment supplied

IBEX Pump Range covers flow rates from 0.50gpm up to 11.00gpm (2 – 42 lpm).
Standard features include: Pressure driven Variable Speed Drive, twin inlets gauges, "Drain Control" twin filters, powder coated frame. ***See data sheet for more details***
.

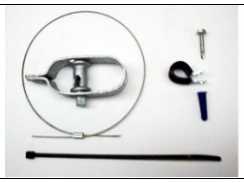
HIGH PRESSURE IBEX SERIES PUMP MODULES		
OGIBX2208	IBEX 2 230 volt 1ph unit 50/60Hz 0.25-2.00 GPM Small Frame	
OGIBX2480	IBEX 2 480 volt 3ph unit 50/60Hz 0.25-2.00 GPM Small Frame	
OGIBX3230	IBEX 3 230 volt 1ph unit 50/60Hz 0.25-3.00 GPM Small Frame	
OGIBX3480	IBEX 3 480 volt 3ph unit 50/60Hz 0.25-3.00 GPM Small Frame	
OGIBX4231	IBEX 4 230 volt 1ph unit 50/60Hz 0.50-4.00 GPM Small Frame	
OGIBX4230	IBEX 4 480 volt 3ph unit 50/60Hz 0.50-4.00 GPM Small Frame	
	ADD ON COMPONENTS FOR PUMP SYSTEMS	
OGREG0006	Pressure Regulator 3/8" Ports Max 2 USGPM per min	
OGREG0007	Pressure Regulator 3/8" Ports Max 6 USGPM per min	
	SECTIONING CONTROLLERS	
OGSCT1012	Sectioning Controller 120 VAC 50/60 HZ	
OGSCT1022	Sectioning Controller 240VAC 50/60 HZ	
	PUMP AND SYSTEM MODULE SPARE PARTS KIT	
OGASK0001	System Spare Parts Kit	
	ASSEMBLY & INSTALLATION TOOLS	
OGTKT0003	Aircraft Cable Tool Kit	
OGTKT0004	General Assembly Tool Kit	
OGVTT0001	Hose Cutter	
OGVTT0002	Nozzle Orientation Tool	
OGTKT0002	Nozzle Cleaning Tool	
OGVTW0001	Extra 0.007" Wire For Cleaning Tool	
OGFTF8520	Teflon Thread Tape	
OGVTN0001	5/16" Nut Driver	
OGVTV0001	5" Vise Grip Pliers	
OGVTB0001	Wire Brush	
OGVTE0002	Nozzle Thread Extractor	
OGVTT0003	Nozzle Thread Tap	
OGVSL0001	Silicone Spray (not for air shipment)	

Photographs and designs are not necessarily of the exact equipment supplied

	FLEXIBLE ATOMIZATION LINES	
STANDARD SPACING		
OGLMA8150	1.50MT (60") spacing with 0.008" brass nozzles and anti-drip	
	REUSABLE HOSE FITTINGS	
OGLFM0004	1/4" (6mm) Male re-usable hose fitting - Brass	
OGLFF0004	1/4" (6mm) Female re-usable hose fitting rigid Brass	
OGLFS0004	1/4" (6mm)Female Swivel re-usable fitting Brass	
OGLFM0006	3/8" (9mm) Male re-usable hose fitting - Brass	
OGLFS0006	3/8" (9mm) Female Swivel re-usable hose - Brass	
OGLFM0008	1/2" (12mm) Male re-usable hose fitting - Brass	
OGLFS0008	1/2" (12mm) Female Swivel re-usable hose - Brass	
	MANIFOLD, PUSH LOCK DRAIN HOSE KITS & QUICK DISCONNECTS.	
OGAHH0004	1/4" (6mm) High Pressure Manifold Hose	
OGAHH0006	3/8" (9mm) High Pressure Manifold Hose	
OGAHH0008	1/2" (12mm) High Pressure Manifold Hose	
OGAHH0012	3/4" (16mm) High Pressure Manifold Hose	
OGPHL0004	1/4" (6mm) Low Pressure Drain Hose - Blue	
OGPHL0006	3/8" (9mm) Low Pressure Drain Hose - Blue fits LDV0001	
OGJGT0061	3/8" (9mm) Blue Poly Drain hose - fits new style drain kit LDV1006	
OGPHL0008	1/2" (12mm)Low Pressure Push-Lock-black	
OGPHL0012	3/4" (9mm) Low Pressure Push-Lock-black	
	MANIFOLD KITS	
	ALL manifold kits include stainless steel high-pressure ball valves	
OGLMK0404	1/4" X 1/4" (6mm X 6mm) Manifold Kit Assembly	
OGLMK0604	3/8" X 1/4" (9mm X 6mm) Manifold Kit Assembly	
OGLMK0804	1/2" X 1/4" (12mm X 6mm) Manifold Kit Assembly	
OGLMK0806	1/2" X 3/8" (12mm X 9mm) Manifold kit Assembly	
OGLMK0606	3/8" X 3/8" (9mm X 9mm) Manifold Kit Assembly	
OGLMK2804	1/2" X 1/4" (12mm X 6mm) Double Manifold kit Assay	
OGLMK2604	3/8" X 1/4" (9mm X 6mm) Double Manifold Kit Assay	

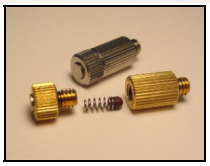
OGLQS0004	1/4" (6mm) QD Assembly (with 2 each 1/4" (6mm) Male RHF)	
OGLQS0006	3/8" (9mm) QD Assembly (with 2 each 3/8" (9mm) Male RHF)	

Photographs and designs are not necessarily of the exact equipment supplied

	SUSPENSION MATERIALS	
OGLAC0002	Aircraft Cable 1/16" SS (with 1 each zip tie per foot)	
OGAAC0116	Aircraft Craft 1/16" SS (cable only per foot)	
OGACS0116	Aircraft Crimp Sleeves	
OGLCT0001	Cable Tightening Unit (ratchet, 10ft (3mt) cable 6 sleeves	
OGAHC1006	Beam Clamps (3/8" Beam)	
OGAHC1012	Beam Clamps (3/4" Beam)	
OGACT0009	7 1/2" (20cm) Zip Tie (Black)	
OGLHC0004	1/4" (6mm) Hose Mounting Clamps (screw and anchor)	
OGLHC0006	3/8" (9mm) Hose Mounting Clamps (screw and anchor)	
OGLHC0008	1/2" (12mm) Hose Mounting Clamps (screw and anchor)	
OGLHC0002	3/8" (9mm) Hose Mounting Clamps for Alumawood	

Pressure psi	800	900	1000	1100	1200
Nozzle Orifice	USGPM – lb/hr	USGPM – lb/hr	USGPM – lb/hr	USGPM – lb/hr	USGPM – lb/hr
0.005"	0.014 – 7.0	0.015 – 7.5	0.017 – 8.5	0.018 – 9.00	1.019 – 9.5
0.008"	0.020 – 10.0	0.023 – 11.5	0.024 – 12.0	0.025 – 12.5	0.026 – 13.0
0.020"	0.065 – 32.5	0.070 – 35.0	0.076 – 38.0	0.080 – 40.0	0.085 – 42.0
Pressure Bar	55	62	69	76	83
Nozzle Orifice	Lpm – kg/hr	Lpm – kg/hr	Lpm – kg/hr	Lpm – kg/hr	Lpm – kg/hr
0.12mm	0.053 – 3.2	0.057 – 3.4	0.064 – 3.8	0.066 – 4.0	0.072 – 4.3
0.20mm	0.083 – 5.0	0.087 – 5.2	0.091 – 5.5	0.095 – 5.7	0.102 – 6.1
0.50mm	0.246 – 14.8	0.265 – 15.9	0.288 – 17.3	0.303 – 18.2	0.318 – 19.1

Full specifications available on request Note: all flow rates shown are nominal.0.005" / 0.12mm nozzles should only be used with pure reverse osmosis water.* refers to 0.008" / 0.12mm nozzles.

	NOZZLES, PLUGS, AUTO DRAIN VALVES	
Brass Nozzles with Antidrip Valves		
OGLNA0001	Nozzle - MC Brass .008" / 0.20mm with anti-drip	
OGLNA0002	Nozzle - MC Brass .020" / 0.50mm with anti-drip	
Brass Nozzles No Anti-drip Valves		
OGLNA0003	Nozzle - MC Brass .008" / 0.20mm without anti-drip	
OGLNA0004	Nozzle - MC Brass .020" / 0.50mm without anti-drip	
Nozzle Plugs		
OGLNP0001	Nozzle Plug Brass	
Drain Valves		
OGLDV0604	Automatic Drain Valve 3/8" female inlet-1/4" male outlet NEW!!	
OGLDV1006	Automatic Drain Valve 3/8" kit with outlet hose connector	

Photographs and designs are not necessarily of the exact equipment supplied

	NOZZLE CLUSTER	
OGLNC0002	5 nozzle SS Cluster no nozzles	
	ROC nozzle cluster - 5 nozzles, 12"/300mm riser + 1/4" M connection	
OGLNC0004	Nozzle Cluster - Complete Fixture 1 ft (300mm) tube, RHF **6** Brass Nozzles	
OGLNC1003	Nozzle Cluster - Complete Fixture 1 ft (300mm) tube, RHF **3** Brass Nozzles	
OGLNC0005	Nozzle Cluster - Complete Fixture 1 ft (300mm) tube, RHF **3** SS Nozzles	
	WATER FILTRATION	
OGPFC0005	5" 5 Micron Filter Cartridge - LD Pump and BIGHORN pumps	
OGPFC1001	10" 1 Micron Filter Cartridge	
OGPFC1005	10" 5 Micron Filter Cartridge	
OGPFC1010	10" 10 Micron Filter Cartridge	
OGPFR0001	10" Filter Housing O-ring	
OGVTF0002	10" Filter Wrench	
OGPFC2001	20" 1 Micron Filter Cartridge	
OGPFC2005	20" 5 Micron Filter Cartridge	
OGPFC2010	20" 10 Micron Filter Cartridge	
OGPCL0002	Pump Oil - 1 Qt (0.95lt) - 90w Synthetic	Mobil 1
OGPCL0001	Pump Oil - 1 Qt (0.95lt) - 15w-50 Synthetic	
	INJECTOR AND DOSING EQUIPMENT	
OGCCI9020	Chemical Injector 2% 0.1-2.5gpm 1:200 - 1:50	
OGCCI9050	Chemical Injector 5% 0.1-2.5gpm 1:50 - 1:20	
OGCCR9001	Remote Injector for Odor Chemical MicroDOS	
OGCCI8050	Chemical Injector 5% 2.5-12gpm 1:500 - 1:99	
OGCCI8010	Chemical Injector 1% 2.5-12gpm 1:500 - 1:100	
OGCCI8004	Chemical Injector 0.4% 2.5-12gpm 1:4,000 - 1:250	
OGCCR8001	Remote Injector for Odor Chemical MiniDOS	
OGPPM0001	Chemical Metering Pump - Electrical - 120VAC 50-/60Hz - Injector Only	
OGPPM0002	Chemical Metering Pump - Electrical - 230VAC 50-/60Hz - Injector Only	

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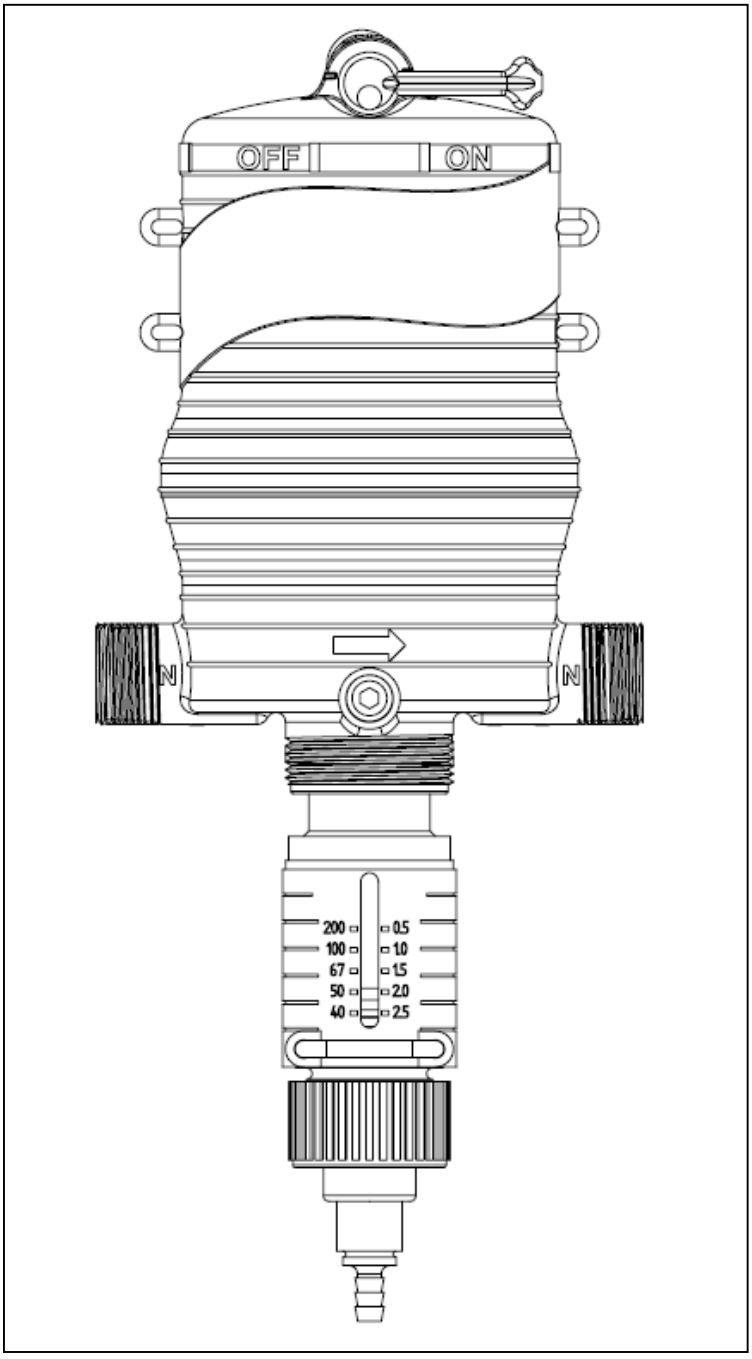
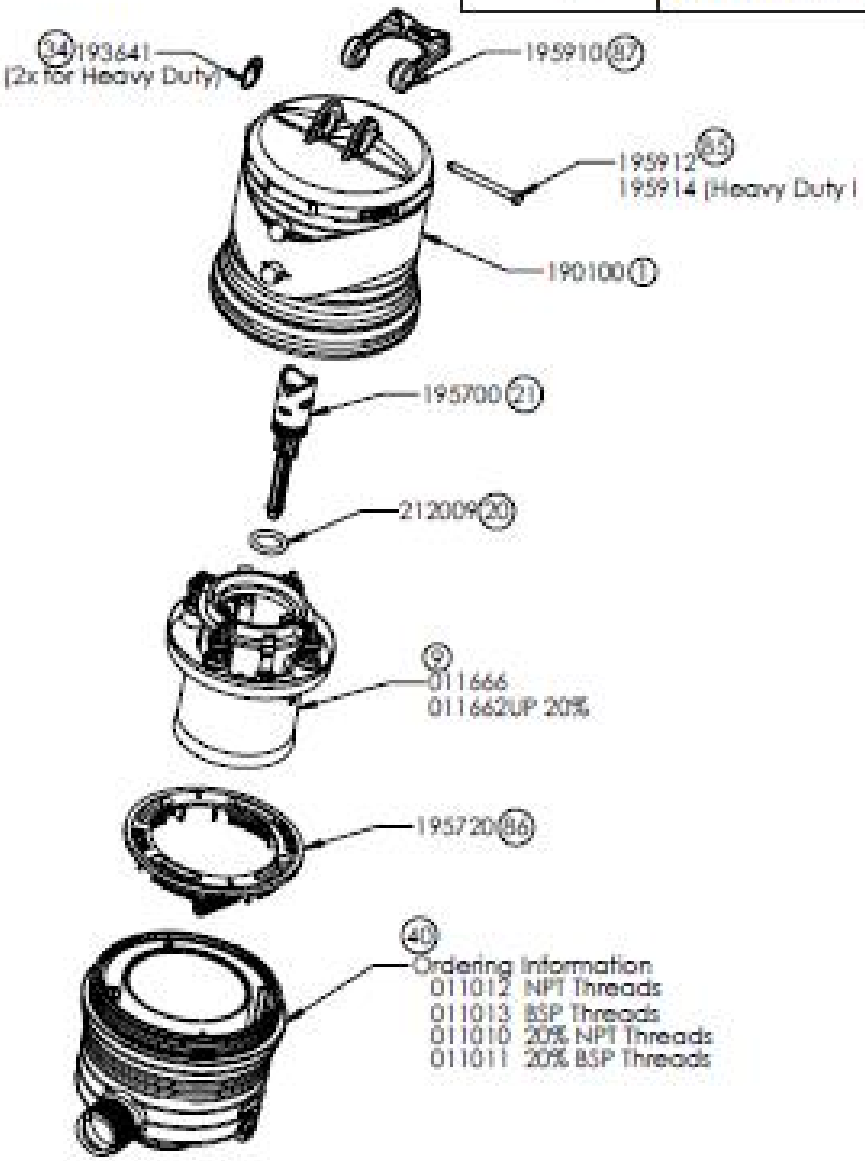
MINIDOS®



REPAIR PARTS:

Reference #	Part #	Description
1	190100	Upper Body
87	195910	On/Off Handle
85	195912 195914	Upper Shaft Pin Heavy duty upper shaft pin
34	193641	Cotter Ring
21	195700	Shaft
20	212009V	O-ring
40	011012 011013 011010 20% 011011 20%	Lower Body NPT Lower Body BSP
86	195720	Mixing Chamber Gasket
9	011666 011662UP 20%	Piston Assembly



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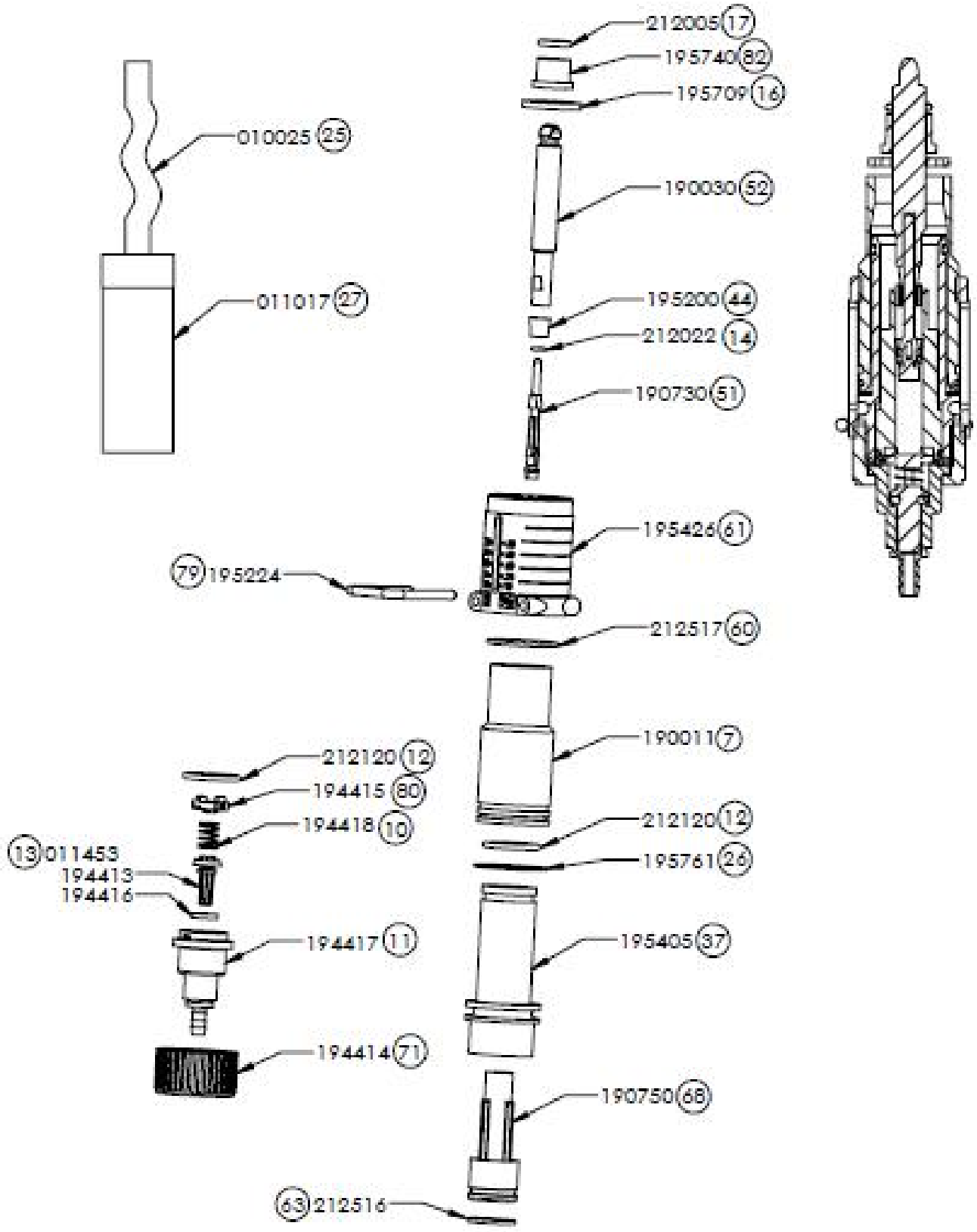
LOWER END INJECTOR PARTS 1%:



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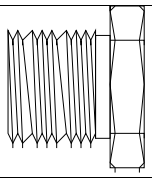
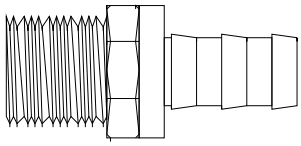
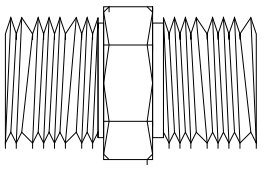
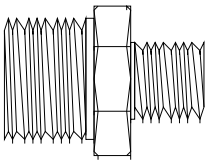
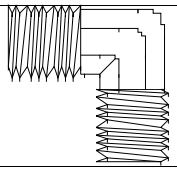
LOWER END INJECTOR & WEAR PARTS KITS 1%:

Description of Kit	Part #	Manual Reference
Kit A – Wear Parts Kit (dosage piston, oring)	011071	14, 44, 51
Kit C – Wear Parts Kit (Kit A, inner cylinder, oring)	011072	12, 14, 44, 51, 63, 68
Kit D – Suction Tube Fitting Assy (poppet, nut, washer, oring, spring, fitting)	011046	10, 11, 12, 13, 71, 80
Kit E – Wear Parts Kit (Kits C & D, upper shaft, pin)	011073	10, 11, 12, 13, 14, 44, 51, 52, 63, 68, 71, 80, 79
Kit G – Lower End Cylinder Kit (Kit E, outer cylinder, ratio adjuster, oring, clip, pin, retainer, filter, solution tube)	011068	7, 10, 11, 12, 13, 14, 16, 17, 25, 26, 27, 37, 44, 51, 52, 60, 61, 63, 68, 71, 79, 80, 82
Kit H – Motor Piston Assy (upper end kit)	011662S	9
Kit Hby - Remote Injection Kit	011762 (Viton) 011764 (EPDM)	32
Kit M – Mounting Bracket Kit (mounting bracket, 4 hex caps & nuts)	011732	54, 55

Manual Reference	Part #	Description of Part
7	190011	Cylinder,outer
10	194418H	Spring
11	194417	Fitting, suction tube, ¼"
12	212120 *Must specify material	O-ring
13	011453A	Poppet, check w/washer
14	212022 *Must specify material	O-ring
16	195709	Gasket
17	212005 *Must specify material	O-ring
25	010025	Suction tube, ¼" x 5'
26	195761	Anti Lock Gasket
27	011017	Filter for suction tube, ¼" ID
37	195405	Inner Cylinder
44	195200	Dosage Piston
51	190730	Shaft, lower
52	190030	Shaft, upper
60	212517W	O-ring
61	195426	Ratio adjustment sleeve
63	212516 *Must specify material	O-ring, inner cylinder
68	190750	Cylinder, inner for #7
71	194414	Nut, suction tube fitting
79	195224	Pin, narrow interlock
80	194415	Twistlock
82	195740	Shaft seal spacer

	BRASS FITTINGS	
BALL VALVES -STAINLESS STEEL		
OGFBB9004	1/4" Ball Valve	
OGFBB9006	3/8" Ball Valve	
OGFBB9008	1/2" Ball Valve	
QUICK DISCONNECTS		
OGFQF0004	1/4" Female Quick Disconnect	
OGFQF0006	3/8" Female Quick Disconnect	
OGFQM0004	1/4" Male Quick Disconnect	
OGFQM0006	3/8" Male Quick Disconnect	
PLUGS		
OGFPH0004	1/4" Hex Plug	
OGFPH0006	3/8" Hex Plug	
OGFPH0008	1/2" Hex Plug	

PUSH LOCK FITTINGS		
OGFPL0408	1/4" Thread X 1/2" Push lock	
OGFPL0608	3/8" Thread X 1/2" Push lock	
OGFPL0808	1/2" Thread X 1/2" Push lock	
OGFPL1208	1/2" Thread X 3/4" Push lock	
PUSH LOCK ELBOW FITTINGS		
OGFPL9008	1/2" Thread X 1/2" Push lock elbow	
HEX NIPPLES		
OGFNH0404	1/4" Hex Nipple	
OGFNH0606	3/8" Hex Nipple	
OGFNH0808	1/2" Hex Nipple	
REDUCING NIPPLES		
		
OGFNR0604	3/8" X 1/4" Reducing Nipple	
OGFNR0804	1/2" X 1/4" Reducing Nipple	
OGFNR0806	1/2" X 3/8" Reducing Nipple	
MALE ELBOWS		
OGFEM9004	1/4" Male Elbow	
OGFEM9006	3/8" Male Elbow	
OGFEM0604	3/8" x 1/4" Male Elbow	
OGFEM9008	1/2" Male Elbow	

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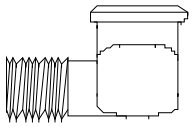
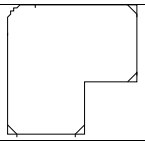
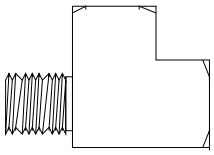
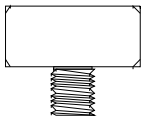
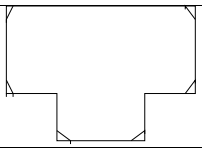
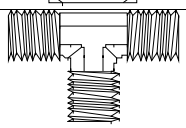
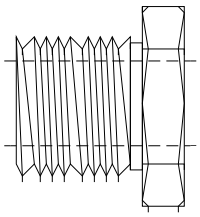
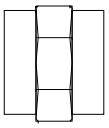
STREET ELBOW		
OGFES9004	1/4" Street Elbow M/F	
OGFES9006	3/8" Street Elbow M/F	
OGFES9008	1/2" Street Elbow	
FEMALE ELBOWS		
OGFEF9004	1/4" Female Elbow	
OGFEF9006	3/8" Female Elbow	
STREET TEES		
OGFTS0002	1/8" Street Tee Male / Fem / Fem	
OGFTS0004	1/4" Street Tee Male / Fem / Fem	
OGFTS0006	3/8" Street Tee Male / Fem / Fem	
OGFTS0008	1/2" Street Tee Male / Fem / Fem	
BRANCH TEES		
OGFTB0004	1/4" Branch Tee Fem / Male / Fem	
OGFTB0006	3/8" Branch Tee Fem / Male / Fem	
OGFTB0008	1/2" Branch Tee Fem / Male / Fem	
FEMALE TEES		
OGFTF0004	1/4" Female Tee	
OGFTF0006	3/8" Female Tee	
OGFTF0008	1/2" Female Tee	
MALE TEES		
OGFTM0004	1/4" Male Tee	
OGFTM0006	3/8" Male Tee	
BUSHINGS		
OGFBH0402	1/4"X1/8" Bushing Male / Fem	
OGFBH0602	3/8"X1/8" Bushing Male / Fem	
OGFBH0604	3/8"X1/4" Bushing Male / Fem	
OGFBH0804	1/2"X1/4" Bushing Male / Fem	
OGFBH0806	1/2"X3/8" Bushing Male / Fem	
COUPLINGS		
OGFCP0004	1/4" Coupling (F/F)	
OGFCP0006	3/8" Coupling (F/F)	
OGFCP0604	3/8" x 1/4" Coupling (F/F)	
OGFCP0804	1/2" x 1/4" Coupling (F/F)	
OGFCP1208	3/4" x 1/2" Coupling (F/F)	

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WARRANTY

Products manufactured by MicroCool® for OG Industries, Inc. bear the following limited warranty:

The seller warrants that the goods to be delivered will be of the kind and quality described in the order or contract and will be free of defects in workmanship or material. Should any failure to conform to this warranty appear within **ONE** (1) year after the initial date of delivery, the seller shall, upon notification thereof and substantiation that the goods have been stored, installed, maintained and operated in accordance with the seller's recommendations and standard industry practice, correct such defect by suitable repair or replacement at its own expense. This warranty is limited to repairing or replacing products that the manufacturer's investigation shows were defective at the time of shipment by the manufacturer. An RMA number must be obtained from OG Industries, Inc. before returning a product for warranty consideration or repair. All products subject to this warranty shall be returned for examination, repair or replacement, freight pre-paid to…Call for RMA number and shipping instructions.

OG INDUSTRIES, INC.

Web site- www.odorgone.com Email- pete@odorgone.com

Phone - +1-610-623-6747 USA - +1-800-930-9227 Fax - +1-610-623-7139

This warranty is exclusive and is in lieu of any warranty or merchant ability, fitness for a particular purpose or other warranty of quality, whether express or implied, except of title and against patent infringement. Correction of non-conformities, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of the seller to the purchaser with respect to, or arising out of the goods, whether based on contract negligence, strict tort or otherwise.

LIMITATION OF LIABILITY - Repair or replacement of defective products as provided above is the sole and exclusive remedy provided hereunder and the seller shall not under any circumstances be liable for special or consequential damages such as, but not limited to, damage or loss of other property or equipment, loss of profits, or revenue, cost of capital, cost of purchased or replacement goods, or claims or customers of purchaser for service interruptions. The remedies of the purchaser set forth are exclusive and the liability of seller with respect to any contract, or anything done in connection therewith such as the performance or breach thereof, or from the manufacture, sale, delivery, resale, installation or use of any goods covered by or furnished under this contract whether arising out of contract, negligence, strict tort, or under any warranty, or otherwise, shall not, except as expressly provided herein, exceed the price of the goods upon which such liabilities based. This is the only warranty on any MicroCool® or OG Industries, Inc. product; no other writing or description in the literature shall be construed as a warranty. Products manufactured by other than MicroCool® or OG Industries, Inc. bear the following limited warranty:

Seller warrants that the goods manufactured by others will conform to the description herein stated. No other warranty express or implied is made, and warranty of the manufacturer is hereby assigned and transferred to the buyer. Furthermore, except for the manufacturer's warranty, if any, the products sold hereunder are sold as is. MicroCool® or OG Industries, Inc. is not liable for any incidental or consequential damages in connection with these products.
In addition to all of the above, MicroCool® or OG Industries, Inc. accepts no liability if the system is used to dispense corrosive, toxic or other non approved agents. MicroCool® or OG Industries, Inc. will **not** be responsible for poor water quality damage or nozzle blockage due to poor water quality.

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